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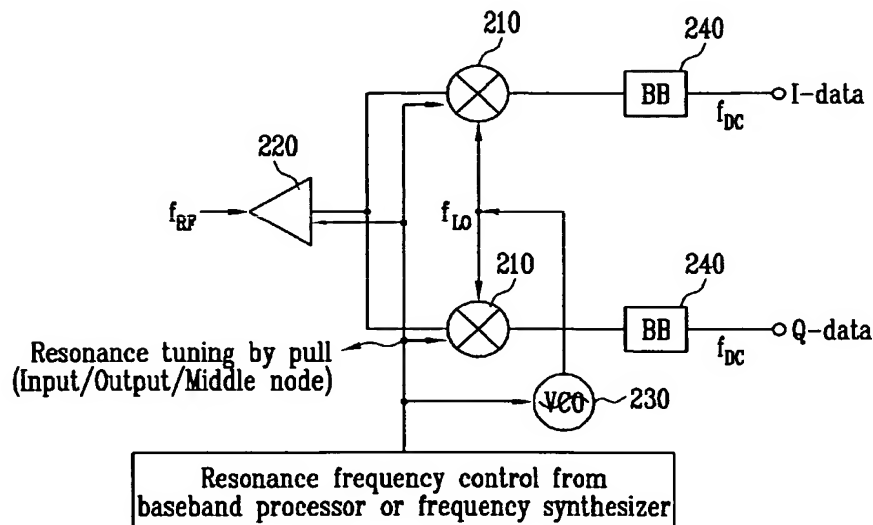
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(54) Title: DIRECT CONVERSION RF FRONT-END TRANSCEIVER AND ITS COMPONENTS



(57) Abstract: Provided is an RF front-end transceiver having an oscillator for outputting a resonant frequency signal whose frequency is controlled by a frequency control signal provided from a frequency synthesizer or a base band processor; a receive amplifier for amplifying and outputting a receive RF signal; a receive mixer for mixing the receive RF signal amplified and the resonant frequency signal to convert the receive RF signal into a receive base band signal; a transmit mixer for mixing a transmit base band signal and the resonant frequency signal to convert the transmit base band signal into a transmit RF signal; and a transmit amplifier for amplifying and outputting the transmit RF signal, wherein a resonant frequency of at least one of the receive amplifier, the receive mixer, the transmit mixer and the transmit amplifier is controlled by the frequency control signal.

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